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| APPLICATION NO.   | FI    | LING DATE  | FIRST NAMED INVENTOR | 7   | ATTORNEY DOCKET NO.   | CONFIRMATION NO. |  |
|---|-------|------------|----------------------|-----|-----------------------|------------------|--|
| 09/839,679  |       | 04/20/2001 | Gary J. Sullivan     |     | MS1-601US             | 1812             |  |
| 22801   | 7590  | 08/24/2004 | ,                    |     | EXAMINER              |                  |  |
| LEE & HAYES PLLC<br>421 W RIVERSIDE AVENUE SUITE 500<br>SPOKANE, WA 99201 |       |            |                      | \ _ | CZEKAJ, DAVID J       |                  |  |
|   |       |            |                      | Ĺſ  | ART UNIT              | PAPER NUMBER     |  |
| 01 012 11 12,   | ***** |            |                      |     | 2613                  | 6                |  |
|   |       |            |                      | D   | ATE MAILED: 08/24/200 | 4                |  |

Please find below and/or attached an Office communication concerning this application or proceeding.

| •   | Application No.   | Applicant(s)  |  |  |  |  |  |
|---|---|---|--|--|--|--|--|
|   | 09/839,679  | SULLIVAN, GARY J.   |  |  |  |  |  |
| Office Action Summary   | Examiner  | Art Unit  |  |  |  |  |  |
|   | Dave Czekaj   | 2613  |  |  |  |  |  |
| The MAILING DATE of this communication<br>Period for Reply  | appears on the cover sheet t  | vith the correspondence address   |  |  |  |  |  |
| A SHORTENED STATUTORY PERIOD FOR REL THE MAILING DATE OF THIS COMMUNICATIO  - Extensions of time may be available under the provisions of 37 CFR after SIX (5) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a  - If NO period for reply is specified above, the maximum statutory per  - Failure to reply within the set or extended period for reply will, by state that the period for reply will, by state that the maximum statutory per  - Failure to reply within the set or extended period for reply will, by state that the maximum statutory per  - Failure to reply within the set or extended period for reply will, by state that the maximum statutory per  - Failure to reply within the set or extended period for reply will, by state that the maximum statutory per  - Failure to reply within the set or extended period for reply will, by state that the maximum statutory per  - Failure to reply within the set or extended period for reply will, by state that the maximum statutory per  - Failure to reply within the set or extended period for reply will, by state that the maximum statutory per  - Failure to reply within the set or extended period for reply will, by state that the maximum statutory per  - Failure to reply within the set or extended period for reply will be set or extended period for reply will | N. R 1.136(a). In no event, however, may a reply within the statutory minimum of the riod will apply and will expire SIX (6) MC atute, cause the application to become  | reply be timely filed irty (30) days will be considered timely. INTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133). |  |  |  |  |  |
| Status  |   |   |  |  |  |  |  |
| 1) Responsive to communication(s) filed on  | ·   |   |  |  |  |  |  |
| 2a) This action is <b>FINAL</b> . 2b) ⊠ T   | This action is non-final.   |   |  |  |  |  |  |
| •   | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. |   |  |  |  |  |  |
| Disposition of Claims   |   |   |  |  |  |  |  |
| 4)  Claim(s) <u>1-25</u> is/are pending in the applicate 4a) Of the above claim(s) is/are without 5)  Claim(s) is/are allowed.  6)  Claim(s) <u>1-25</u> is/are rejected.  7)  Claim(s) is/are objected to.  8)  Claim(s) are subject to restriction and  | drawn from consideration.   |   |  |  |  |  |  |
| Application Papers  |   |   |  |  |  |  |  |
| 9)☐ The specification is objected to by the Exam 10)☒ The drawing(s) filed on 20 April 2001 is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the constant.  The oath or declaration is objected to by the   | a)⊠ accepted or b)⊡ obj<br>the drawing(s) be held in abey<br>rection is required if the drawir  | ance. See 37 CFR 1.85(a).<br>g(s) is objected to. See 37 CFR 1.121(d).  |  |  |  |  |  |
| Priority under 35 U.S.C. § 119  |   |   |  |  |  |  |  |
| 12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of:  1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the papplication from the International Bur * See the attached detailed Office action for a   | nents have been received.  The sents have been received in priority documents have been reau (PCT Rule 17.2(a)).  | Application No n received in this National Stage  |  |  |  |  |  |
| Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB. Paper No(s)/Mail Date  | Paper No  | v Summary (PTO-413)<br>o(s)/Mail Date<br>f Informal Patent Application (PTO-152)<br>  |  |  |  |  |  |

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over MacInnis et al. (6744472), (hereinafter referred to as "MacInnis") in view of Owen et al. (6414996), (hereinafter referred to as "Owen").

Regarding claims 1-2, 10-12, 18, and 24-25, MacInnis discloses an apparatus that relates to an integrated circuit graphics display system (MacInnis: column 1, lines 41-43). This apparatus comprises "receiving a command from a decoder application" (MacInnis: figure 2, item 50, wherein the decoder application is the video decoder) and "generating one or more filter control command data structures recognizable by a communicatively coupled accelerator including one or more parameters which affect one or more filter settings of the accelerator" (MacInnis: figure 2, column 57, lines 21-37, wherein the filter parameters are the blending, scaling, blitting, and filling, the accelerator is the graphics accelerator). Although MacInnis fails to explicitly show an application interface in MacInnis's figures, the examiner notes that the system depicted in figure 1 would require an interface to correctly operate. Owen teaches that it is well known in the art to include an application interface with decoder and accelerator systems (Owen: figure 1, wherein the application interface is the navigation manager).

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Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to take the apparatus disclosed by MacInnis and implement an application interface taught by Owen in order to obtain an apparatus that can operate efficiently. One would be further motivated since it is well known in the art to do so.

Regarding claims 3, and 20, MacInnis discloses "the filter is a post-processing filter" (MacInnis: figure 28).

Regarding claim 4, Owen discloses "output data subsequent to the application of a post-processing filter are used as prediction references" (Owen: column 3, lines 20-27, wherein the post processing filter is the half pixel filter).

Regarding claims 5, 14, and 21, MacInnis discloses "the post processing filter is a de-ringing filter" (MacInnis: column 9, lines 52-58, wherein low pass filtering requires the signal to be de-rung).

Regarding claims 6-7, 17, and 23, MacInnis discloses "the parameters include a strength parameter" (MacInnis: column 4, lines 40-51, wherein the strength parameter is the scaling).

Regarding claims 8-9, 15-16, and 22, MacInnis discloses "the API issues control commands for 4 or 16 luminance structures and/or 2, 4, 8, 16, or 32 chrominance structures" (MacInnis: column 9, lines 34-44, wherein the YUV converter uses the above chrominance and luminance structures).

Regarding claim 13, MacInnis discloses "the filter control structures effect one or more of the post processing filters" (MacInnis: figure 2, column 57, lines 21-37, wherein the filter structures indicate whether to blend, scale, blitte, and/or fill).

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Regarding claim 19, MacInnis in view of Owen disclose "one ore more media accelerators coupled to the decoder application via the API" (MacInnis: figures 1-2, wherein the accelerator is the graphics accelerator, the decoder application is the video decoder; Owen: figure 1, wherein the application interface is the navigation manager).

## Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

| US-6223193      | 04-2001 | Pau et al.      |
|-----------------|---------|-----------------|
| US-6348925      | 02-2002 | Potu, Brahmaji  |
| US-2002/0005903 | 01-2002 | Miyamoto et al. |
| US-5329318      | 07-1994 | Keith, Michael  |

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dave Czekaj whose telephone number is (703) 305-3418. The examiner can normally be reached on Monday - Friday 9 hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chris Kelley can be reached on (703) 305-4856. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

CHRIS KELLET SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600